

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049172 A2

(51) International Patent Classification⁷: **B01D 29/00**,
29/15, 29/68

(21) International Application Number:
PCT/GB2004/004803

(22) International Filing Date:
15 November 2004 (15.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0326629.3 14 November 2003 (14.11.2003) GB

(71) Applicant (for all designated States except US): **EVOLUTION AQUA LIMITED** [GB/GB]; Evolution House, Kellett Close, Wigan, Lancashire WN5 0LP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JACKSON**,

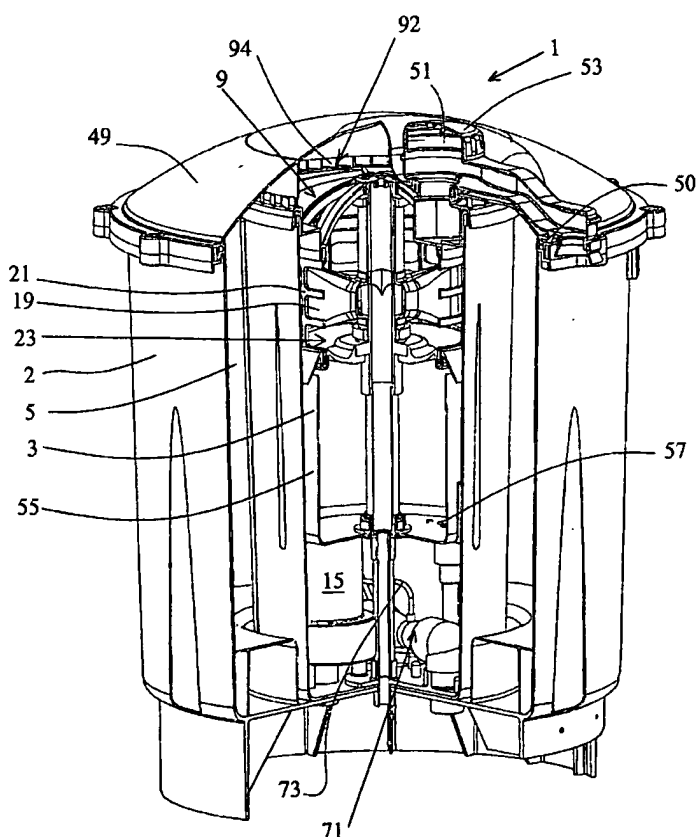
Nicholas [GB/GB]; Evolution Aqua Limited, Evolution House, Kellett Close, Wigan, Lancashire WN5 0LP (GB). **CLARK, Andrew** [GB/GB]; Greenacres, Middle Claydon, Buckinghamshire MK18 2LD (GB). **FRENCH, Colin** [GB/GB]; Evolution Aqua Limited, Evolution House, Kellett Close, Wigan, Lancashire WN5 0LP (GB).

(74) Agent: **IPG**; Forsyth House, 93 George Street, Edinburgh EH2 3ES (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: A FLUID FILTRATION SYSTEM AND METHOD OF FILTERING FLUID



(57) Abstract: The present application relates to a filtration system (1) having at least one flexible filter (9) and cleaning apparatus (25) for projecting a flow of fluid onto the at least one flexible filter. The fluid to be filtered passes through the at least one flexible filter (9) and causes the at least one flexible filter (9) to be deflected in a first direction. The flow of fluid projected onto the at least one flexible filter (9) from the cleaning apparatus (25) causes the at least one flexible filter (9) to be deflected in a second direction. The first and second directions are substantially opposite to each other. The present invention further relates to a filtration system (1) for filtering particulates from a liquid. The filtration system has a sealed vessel (2) suitable for supporting a pressure less than atmospheric pressure. A filter (9) is provided for filtering particulates from the liquid. The application also relates to a method of filtering fluid.

WO 2005/049172 A2



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only